Barbara McClintock

Hartford, Connecticut 16 June 1902 Born:

Secondary Education:

Erasmus Hall High School, Brooklyn, New York.

Earned Degrees:

B.S.	Cornell	University,	Ithaca,	New	York	1923
M.A.	Cornell	University,	Ithaca,	New	York	1925
Ph.D.	Cornell	University,	Ithaca,	New	York	1927

Positions held:

Instructor in Botany, Cornell University	1927-1931				
Fellow, National Research Council	1931-1933				
Fellow, Guggenheim Foundation	1933-1934				
Research Associate, Cornell University	1934-1936				
Assistant Professor, University of Missouri,					
Columbia, Missouri	1936-1941				
Staff Member, Carnegie Institution of Washington,					
Cold Spring Harbor, New York	1942-1967				
Distinguished Service Member, Carnegie Institution					
of Washington, Cold Spring Harbor, New York	1967 to Present				
Visiting Professor, California Institute of Technology	1954				
Consultant, Agricultural Science Program,					
The Rockefeller Foundation	1963-1969				
Andrew D. White Professor-at-Large, Cornell					
University	1965-1974				

Honorary Doctor of Science:

University of Rochester 1947
Western College for Women 1949
Smith College 1957
University of Missouri 1968
Williams College 1972
The Rockefeller University 1979
Harvard University 1979

Honorary Doctor of Humane Letters:

Georgetown University 1981

Awards:

Achievement Award, Association of University Women 1947 Merit Award, Botanical Society of America 1957 Kimber Genetics Award, National Academy of Sciences 1967 National Medal of Science 1970 Lewis S. Rosenstiel Award for Distinguished Work in Basic Medical Research 1978 The Louis and Bert Freedman Foundation Award for Research in Biochemistry 1978 Salute from the Genetics Society of America, August 18, 1980

Professional Societies:

AAAS

American Academy of Arts and Sciences

American Philosophical Society

American Society of Naturalists

Botanical Society of America

Genetics Society of America (Vice President, 1939;

President, 1945)

National Academy of Sciences

Sigma Xi

Publications:

- Randolph, L.F. and McClintock, B. 1926. Polyploidy in Zea mays L. Am. Nat. 60: 99-102.
- Beadle, G.W. and McClintock, B. 1928. A genic disturbance of meiosis in Zea mays. Science 68: 433.
- McClintock, Barbara. 1929. A cytological and genetical study of triploid maize. Genetics 14: 180-222.
- 1929. A 2N-1 chromosomal chimera in maize. Jour. Hered. 20: 218.
- 1930. A cytological demonstration of the location of an interchange between two non-homologous chromosomes of Zea mays. Proc. Nat. Acad. Sci. 16: 791-796.
- McClintock, Barbara and Hill, H.E. 1931. The cytological identification of the chromosome associated with the $\underline{R-G}$ linkage group in \underline{Zea} \underline{mays} . Genetics 16: 175-190.
- McClintock, Barbara. 1931. The order of the genes C, Sh, and Wx in Zea mays with reference to a cytologically known point in the chromosome. Proc. Nat. Acad. Sci. 17: 485-491.
- Creighton, Harriet B. and McClintock, Barbara. 1931. A correlation of cytological and genetical crossing-over in Zea mays. Proc. Nat. Acad. Sci. 17: 492-497.
- McClintock, Barbara. 1931. Cytological observations of deficiencies involving known genes, translocations and an inversion in Zea mays. Missouri Agricultural Experiment Station Research Bulletin 163: 1-30.
- in Zea mays. Proc. Nat. Acad. Sci. 18: 677-681.
- 1933. The association of non-homologous parts of chromosomes in the mid-prophase of meiosis in Zea mays. Zeitschrift fur Zellforschung und mikroskopische Anatomie 19: 191-237.
- development of the nucleoli in Zea mays. Zeitschrift fur Zellforschung und mikroskopische Anatomie, 21: 294-328.

- Creighton, Harriet B. and McClintock, Barbara. 1935. The correlation of cytological and genetical crossing-over in Zea mays. A corroboration. Proc. Nat. Acad. Sci. 21: 148-150.
- Rhoades, M.M. and McClintock, Barbara. 1935. The cytogenetics of maize. Bot. Review 1: 292-325.
- McClintock, Barbara. 1937. The production of maize plants mosaic for homozygous deficiencies: Simulation of the bm $_1$ phenotype through loss of the Bm $_1$ locus. Genetics 22: 200.
- 1938. A method for detecting potential mutations of a specific chromosomal region. Genetics 23: 159.
- 1938. The fusion of broken ends of sister half-chromatids following chromatid breakage at meiotic anaphases. Missouri Agricultural Experiment Station Research Bulletin 290: 1-48.
- 1939. The behavior in successive nuclear divisions of a chromosome broken at meiosis. Proc. Nat. Acad. Sci. 25: 405-416.
- 1941. The stability of broken ends of chromosomes in Zea mays. Genetics 26: 234-282.
- The association of mutants with homozygous deficiencies in Zea mays. Genetics 26: 542-571.
- Tea mays. Cold Spring Harbor Symposia on Quantitative Biology 9: 72-80.
- 1942. The fusion of broken ends of chromosomes following nuclear fusion. Proc. Nat. Acad. Sci. 11: 458-463.
- 1942. Maize genetics. Carnegie Inst. Wash. Year Book #41: 181-186.
- 1943. Maize genetics. Carnegie Inst. Wash. Year Book #42: 148-152.
- 1944. The relation of homozygous deficiencies to mutations and allelic series in maize. Genetics 29: 478-502.
- 1944. Breakage-fusion-bridge cycle induced deficiencies in the short arm of chromosome 9. Maize Genetics Cooperation News Letter 18: 24-26.





